



Mobile Air Conditioning Aftermarket Parts and Service Equipment Partnership (MACAPSEP)

Partnership Formed May 25, 2004

- *U.S. EPA*
- *CARB*
- *AAIA*
- *Cap and Seal Company*
- *Sexton Can Co*
- *National Refrigerants*
- *Technical Chemical Co*
- *Ashland*
- *Arkema*
- *Ineos Fluor*
- *DuPont*
- *EF Products*
- *Honeywell*
- *Interdynamics*
- *Weitron*

Represents can manufacturer, can fillers, component manufacturers, chemical producers, and government.

Partnership Agreement

- Concerned with unnecessary emissions and proper use of HFC-134a during professional and do-it-yourself (DIY) servicing of MVACs
- Mindful that public education on proper MVAC servicing procedures can reduce emissions & may protect small businesses and enterprises and allow continued economical MVAC service
- It is agreed to cooperate on data collection and analyses, manuals of best practice, and public-access websites.
- 2002 US MVACS sector HFC-134a emissions=
22,000 metric tons (8 MMTCE)
 - Includes professional and DIY maintenance and normal use
 - MVAC emissions are 64% of total US HFC-134a refrigeration emissions*

*US EPA Vintaging Model

Information Provided by AAIA for 2004

- HFC-134a sold into the market=
10,757 metric tonnes/3.8 MMTCE
 - Pure HFC-134a= 10,227 metric tonnes/3.6 MMTCE
 - HFC-134a portion of “blended” products=
530 metric tonnes/0.2MMTCE
- Represents over 90% of the DIY market
- AAIA estimates a heel of 1.3% using Ideal Gas Law
- Estimates on total heel emissions and inadvertent emissions

AAIA Deliverables

- Can tapper seal leak studies from Technical Chemical Co. and EF Products
- Comments on draft guidance for heel testing
- Consumer website (www.carcare.org) to be posted soon

EPA Deliverables

- Information on EPA's Vintaging Model and other models of GHG emissions
- 30 pound cylinder study
- Information on EPA's previous estimates of DIY can use and emissions

Possible Future Work

- Develop guidelines for 30 pound cylinder heel testing
- Determine amount of cans going to California to complement possible collaboration with CARB
- Possible study of DIY and professional proficiency and state-of-the-practice

More Information

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